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By: Aileen C. Brantland

1653
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WB
10/11/02
PATENT

Attorney Docket No. 084633-000100US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

JANE OSBOURN et al.

Application No.: 09/817,661

Filed: March 26, 2001

For: RIBOSOME DISPLAY

Examiner: Unassigned

Art Unit: 1653

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT**

RECEIVED

OCT 09 2002

TECH CENTER 1600/2900

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Applicants direct the Examiner's attention to the references below, also listed on the accompanying Form PTO-1449. A copy of each is also enclosed.

The following U.S. Patent is set forth below:

AJ. U.S. Patent 5,658,754 issued on August 19, 1997 to Kawasaki.

The following foreign patent publications are set forth by approximate publication date:

AK. PCT Publication No. WO 95/11922 published on 4 May 1995.

The following articles are set forth by the indicated year of publication date:

AL. Sleat et al., "Packaging of Recombinant RNA Molecules into Pseudovirus Particles Directed by the Origin-of-Assembly Sequence from Tobacco Mosaic Virus RNA," Virology, 155:299-308 (1986).

AM. Sleat et al., "Selective recovery of foreign gene transcripts as virus-like particles in TMV-infected transgenic tobaccos," Nucleic Acids Res. 8:3127-3140 (1988).

AN. Mattheakis et al., "An *in vitro* polysome display system for identifying ligands from very large peptide libraries," Proc. Natl. Acad. Sci. USA, 91:9022-9026 (September, 1994).

AO. Hwang et al., "Expression of tobacco mosaic virus coat protein and assembly of pseudovirus particles in *Escherichia coli*," Proc. Natl. Acad. Sci. USA, 91:9067-9071 (September, 1994).

AP. Hanes et al., "Ribosome display efficiently selects and evolves high-affinity antibodies *in vitro* from immune libraries," Proc. Natl. Acad. Sci. USA, 95:14130-14135 (November, 1995).

AQ. Hanes et al., "*In vitro* selection and evolution of functional proteins by using ribosome display," Proc. Natl. Acad. Sci. USA, 94:4937-4942 (May, 1997).

AR. Gersuk et al., "High-Affinity Peptide Ligands to Prostate-Specific Antigen Identified by Polysome Selection," Biochem. Biophys. Res. Comm., 232:578-582 (1997).

AS. Hoffmueller et al., "*In vitro* Evolution and Selection of Proteins: Ribosome Display for Larger Libraries," Angew. Chem. Int. Ed. 23:3241-3243 (1998).

AT. Roberts, "Totally *in vitro* protein selection using mRNA-protein fusion and ribosome display," Curr. Opin. Biotech., 3:268-273 (1999).

AU. Amstutz et al., "*In vitro* display technologies: novel developments and applications," Curr. Opin. Biotech. 12:400-405 (2001).

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. However, Applicants reserve the right to demonstrate that their claimed invention was made prior to any one or more of the above-identified references. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicants respectfully request that the Examiner review the foregoing references to make his own determination of the patentability of the present invention and that the references be made of record in the file of this application.

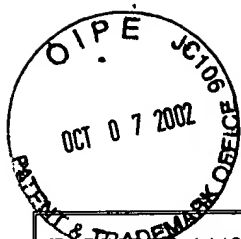
This Information Disclosure Statement is being filed more than three months after the filing date, but prior to the first substantive Office Action. Although no fee is believed to be due, the Commissioner is hereby authorized to charge any fees necessitated by this transmittal to Townsend and Townsend Deposit Account No. 20-1430.

Respectfully submitted,

Dated: October 1, 2002

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FORM PTO-1449 (Modified)				Attorney Docket No.: 084633-000100US		Application No.: 09/817,661	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Applicant: Jane Osbourn et al.			
				Filing Date: March 26, 2001		Group: 1653	
Reference Designation				U.S. PATENT DOCUMENTS		Page 1 of 1	
Examiner Initial		Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
	AJ	5,658,754	08/19/97	Kawasaki			
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
	AK	95/11922	05/04/95	WO			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AL	Sleat et al., "Packaging of Recombinant RNA Molecules into Pseudovirus Particles Directed by the Origin-of-Assembly Sequence from Tobacco Mosaic Virus RNA," <u>Virology</u> , 155:299-308 (1986).					
	AM	Sleat et al., "Selective recovery of foreign gene transcripts as virus-like particles in TMV-infected transgenic tobaccos," <u>Nucleic Acids Res.</u> 8:3127-3140 (1988).					
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	AO	Hwang et al., "Expression of tobacco mosaic virus coat protein and assembly of pseudovirus particles in <i>Escherichia coli</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 91:9067-9071 (September, 1994).					
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	AR	Gersuk et al., "High-Affinity Peptide Ligands to Prostate-Specific Antigen Identified by Polysome Selection," <u>Biochem. Biophys. Res. Comm.</u> , 232:578-582 (1997).					
	AS	Hoffmueller et al., " <i>In vitro</i> Evolution and Selection of Proteins: Ribosome Display for Larger Libraries," <u>Angew. Chem. Int. Ed.</u> 23:3241-3243 (1998).					
	AT	Roberts, "Totally <i>in vitro</i> protein selection using mRNA-protein fusion and ribosome display," <u>Curr. Opin. Biotech.</u> , 3:268-273 (1999).					
	AU	Amstutz et al., " <i>In vitro</i> display technologies: novel developments and applications," <u>Curr. Opin. Biotech.</u> 12:400-405 (2001).					
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.